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IMAGERY
ANALYSIS



STAFF

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PHOTOGRAPHIC INTELLIGENCE REPORT

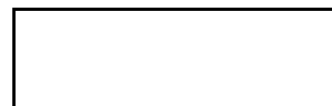
SA-3 ASSEMBLY FACILITIES

USSR



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DATE May 1967
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SA-3 ASSEMBLY FACILITIES, USSR

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SA-3 ASSEMBLY FACILITIES, USSR

MAY 1967

SUMMARY

This study presents additional and updated information on the 15 SA-3 assembly facilities in the Soviet Union. A close correlation is found to exist between the deployment of the assembly facilities and deployment of SA-3 launch sites. A comparison of configurations reveals variation among the facilities, but it appears that three road-served buildings along loop service roads is usually a minimum requirement. In many cases, these facilities are situated near SA-2 launch sites or support installations, however, the SA-3 operations seem to be separate and self contained. Since large scale deployment of SA-3 sites has apparently been curtailed, it is doubtful that additional assembly facilities will be constructed.

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INTRODUCTION

IAS and NPIC have identified 15 SA-3 assembly facilities in the Soviet Union [REDACTED]. The functional designation of these facilities is based on the identification of SA-3 equipment at these facilities and their location in major areas of SA-3 deployment. This designation, however, is not agreed upon throughout the intelligence community.

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The purpose of this report is to update existing information on the facilities by providing configuration details, building measurements, identification of equipment, and chronological development. Good quality [REDACTED] photography has enabled observation of considerable detail at the facilities, and this information is presented on line drawings and annotated prints. A chronological chart is presented showing relationships between SA-3 sites, the assembly facilities, and first identification of SA-3 equipment.

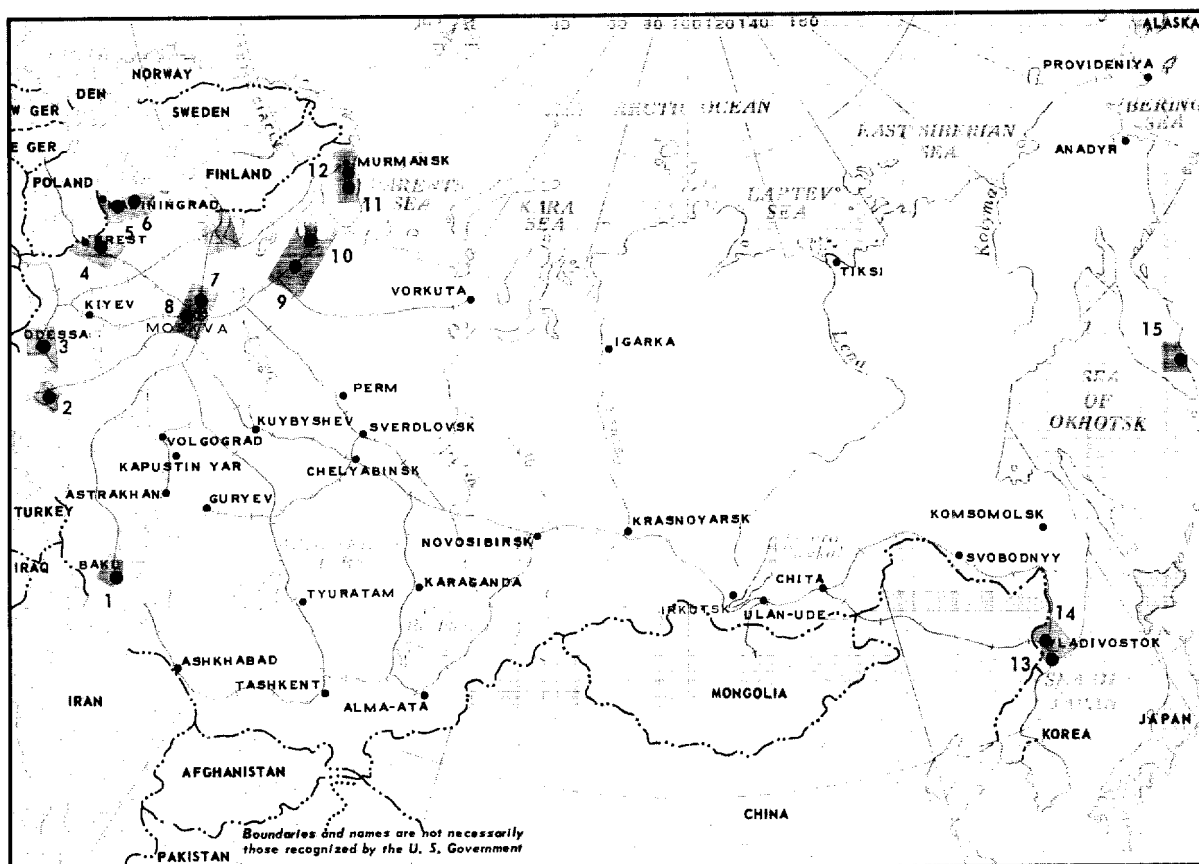
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The measurements have been made by the NPIC Technical Intelligence Division and are considered to be accurate within ± 5 feet or 5 percent, whichever is greater.

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Major concentration of SA-3 missile sites
 SA-3 assembly facility

NO.	NAME	GEO. COORDS.	NO.	NAME	GEO. COORDS.
1	BAKU	40-28-50N 49-56-05E	9	PLESETSK	62-49-25N 40-41-00E
2	SEVASTOPOL	44-33-50N 33-35-40E	10	SEVERODVINSK	64-36-50N 39-49-33E
3	ODESSA	46-32-00N 30-37-55E	11	OLENEGORSK	69-12-50N 33-50-15E
4	BEREZA	52-30-35N 24-58-40E	12	MURMANSK	69-02-30N 33-50-15E
5	KALININGRAD	54-44-50N 20-04-20E	13	VLADIVOSTOK	43-23-12N 132-05-10E
6	PALANGA	55-59-00N 21-06-45E	14	USSURIYSK	43-52-00N 132-02-20E
7	MOSCOW I	56-22-10N 37-32-50E	15	PETROPAVLOVSK	53-04-20N 158-50-30E
8	MOSCOW II	55-37-10N 36-20-32E			

FIGURE 1. SA-3 ASSEMBLY FACILITIES, USSR

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IDENTIFICATION FEATURES

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[REDACTED] a secured facility adjacent to Severodvinsk SAM Support Facility I was observed to contain SA-3 transporters and related equipment. The pattern observed at Severodvinsk has since led to the identification of the 15 facilities indicated in Figure 1.

The most positive identification feature for SA-3 assembly facilities is the presence of SA-3 equipment. Readily identifiable equipment consists of SA-3 transporters and SA-3 shipping canisters at all the facilities with the exception of Moscow SA-3 Assembly Facility II. Here the lack of large scale photography precludes identification of equipment. Other equipment is present in most cases, including what appear to be flat bed trailers, possible canister transporters, and missile transport dollies used during assembly and checkout operations.

The configurations seen at the 15 assembly facilities indicate that only a loosely defined pattern is required for their construction (Figures 2-16). Each facility is characterized by a small drive-through probable missile assembly building, and most of them contain at least one large road-served probable component storage and handling building. The minimum requirement is normally three road-served buildings placed along loop service roads. Figures 2-16 provide descriptions, dimensions, and equipment identified at each facility. Since little standardization of components is evident within these areas, any future SA-3 assembly facilities may vary considerably in construction detail.

FACILITY OPERATION

Within the defended area, the SA-3 assembly facility is usually located near other SAM installations, often an SA-2 support facility. In those instances where SA-3 assembly facilities and SA-2 support facilities are located quite near or adjacent to each other, the two are separately fenced and often served by separate roads, indicating that the operations conducted within are self-contained, and are probably carried out independent of each other. Like the SA-2 support facilities, no separate, well-defined housing and administration area can be identified at any of the SA-3 assembly facilities.

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LOCATION OF FACILITIES

SA-3 assembly facilities are presently located in all major areas of SA-3 deployment, with the exception of the Leningrad area. Here, missile support activity for the SA-3 missile system is probably conducted at the four large SAM assembly and storage facilities located around Leningrad. SA-3 shipping canisters have been observed stored at one of these facilities.

In the other areas, the facilities are centrally located, and apparently provide local support to several launch sites. An analysis of the deployment pattern at Petropavlovsk, Severodvinsk, and Sevastopol indicates that one SA-3 assembly facility probably supports about four launch sites.

Other deployment information is shown in Figure 17 which depicts a correlation between the rate of deployment of the SA-3 assembly facilities and the initial deployment of SA-3 launch sites as well as the time span between the deployment of the SA-3 assembly facility and the first time equipment was observed at each facility. This latter information should be treated with caution, since the earlier [redacted] missions were adequate for identification of installations, but were usually not of sufficient quality to permit equipment identification. Thus, equipment may have been present in these facilities well before the date indicated in Figure 17. Since large scale deployment of SA-3 sites has apparently been curtailed, it is doubtful that additional SA-3 assembly facilities will be constructed or remain to be identified.

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REFERENCES

Photography

List available on request from IAS/DDI.

Documents

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2. DIA. Cable (Prod Center), [redacted] January 1967
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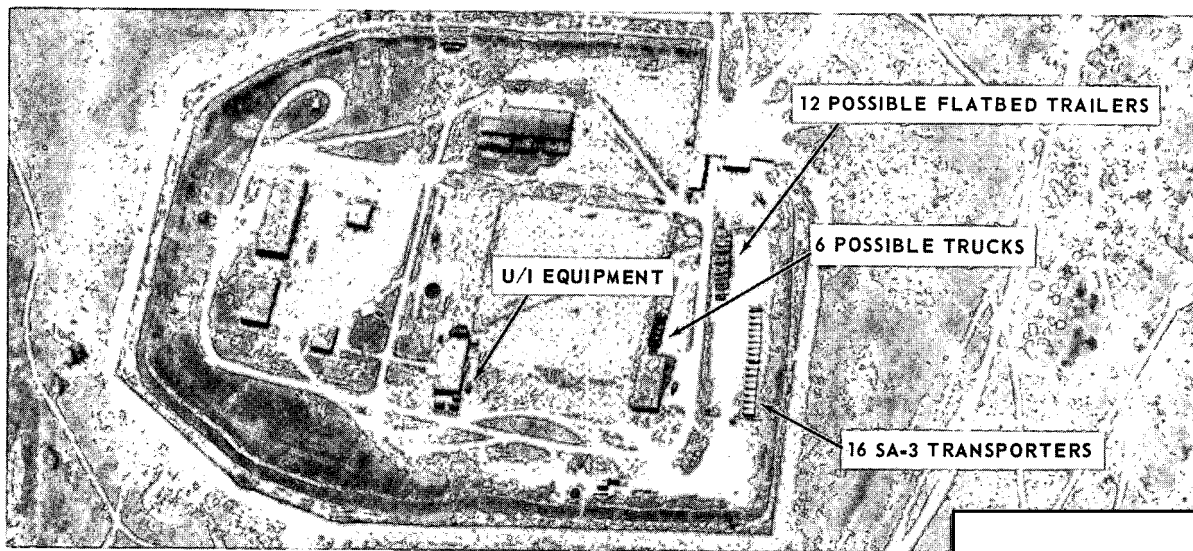
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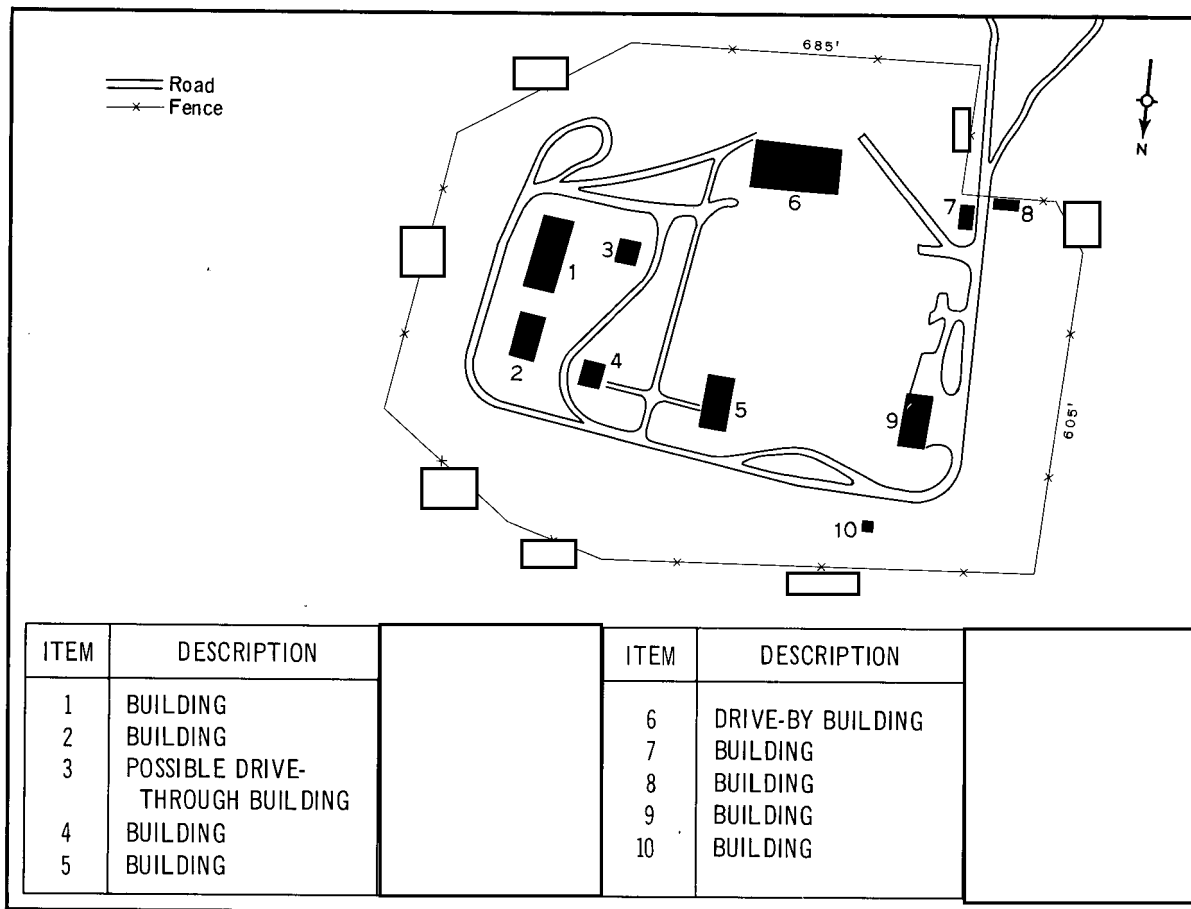
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FIGURE 2. BAKU SA-3 ASSEMBLY FACILITY

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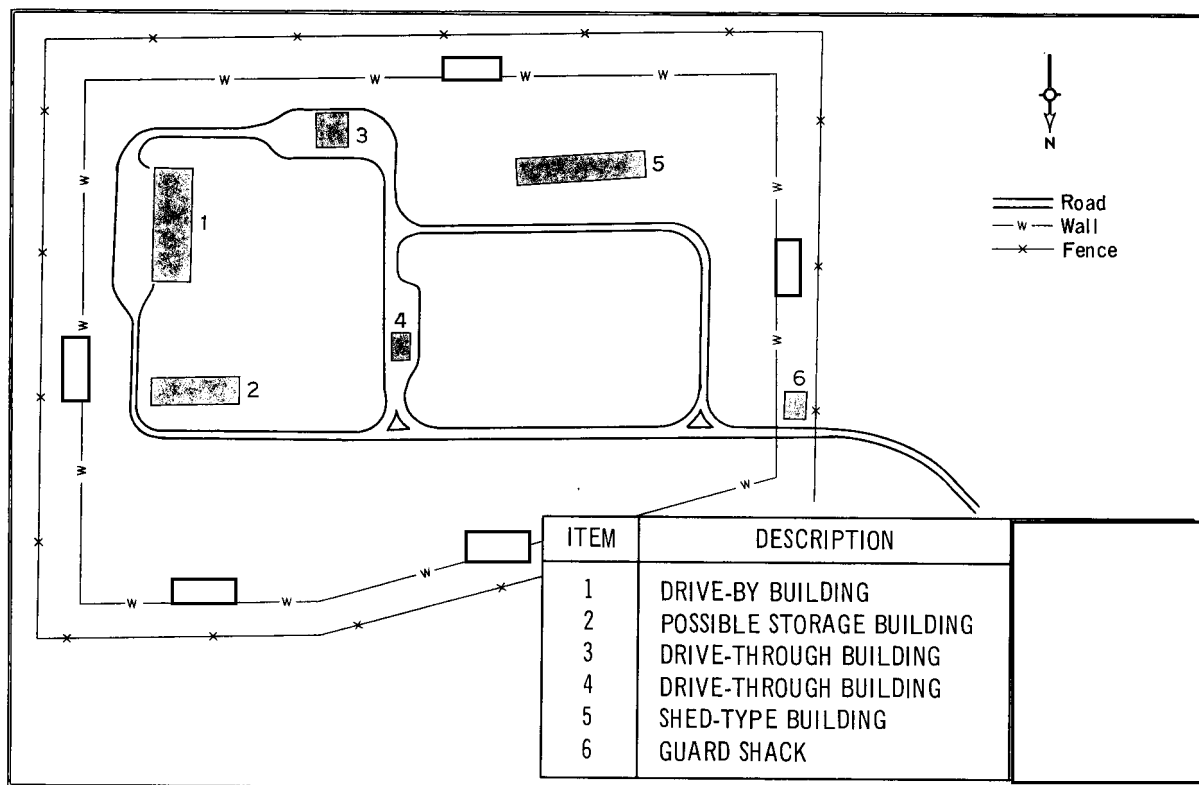
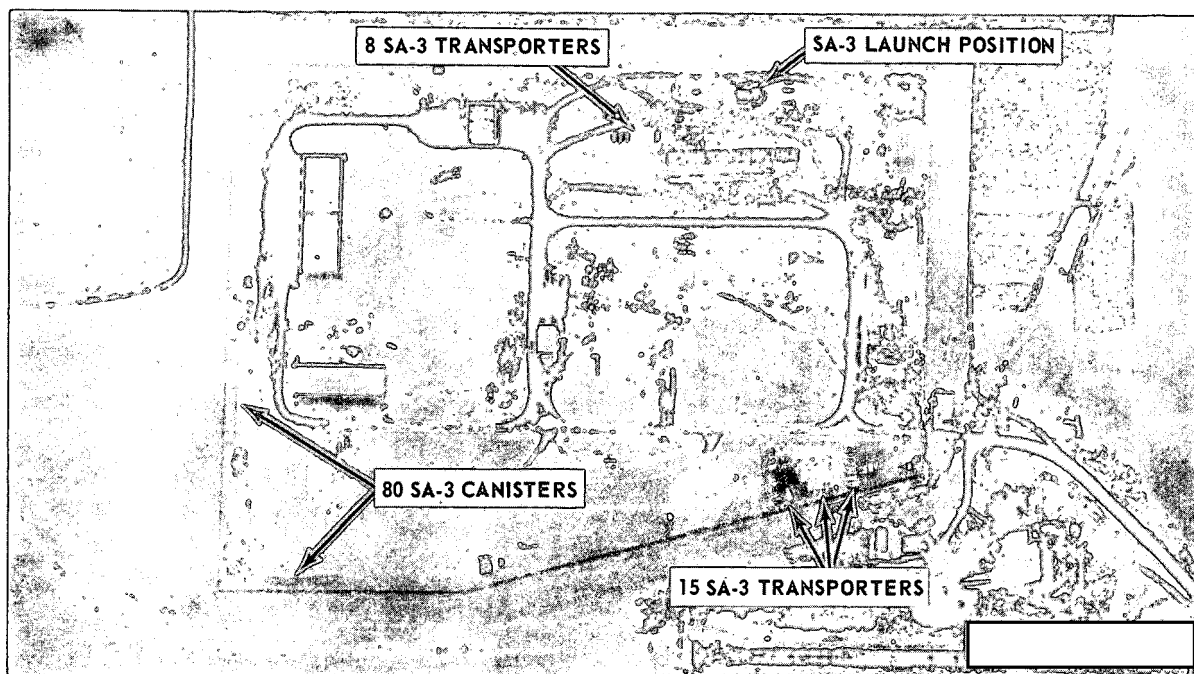


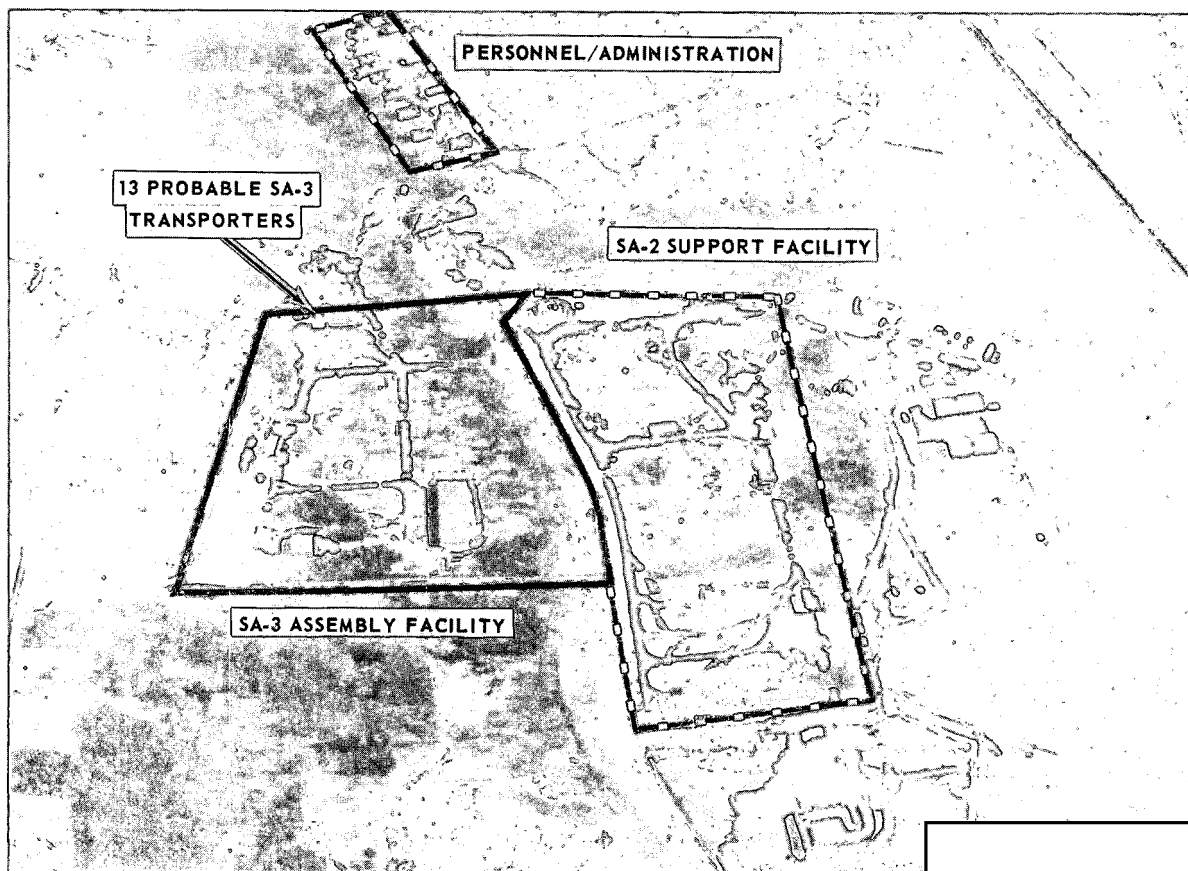
FIGURE 3. BEREZA SA-3 ASSEMBLY FACILITY

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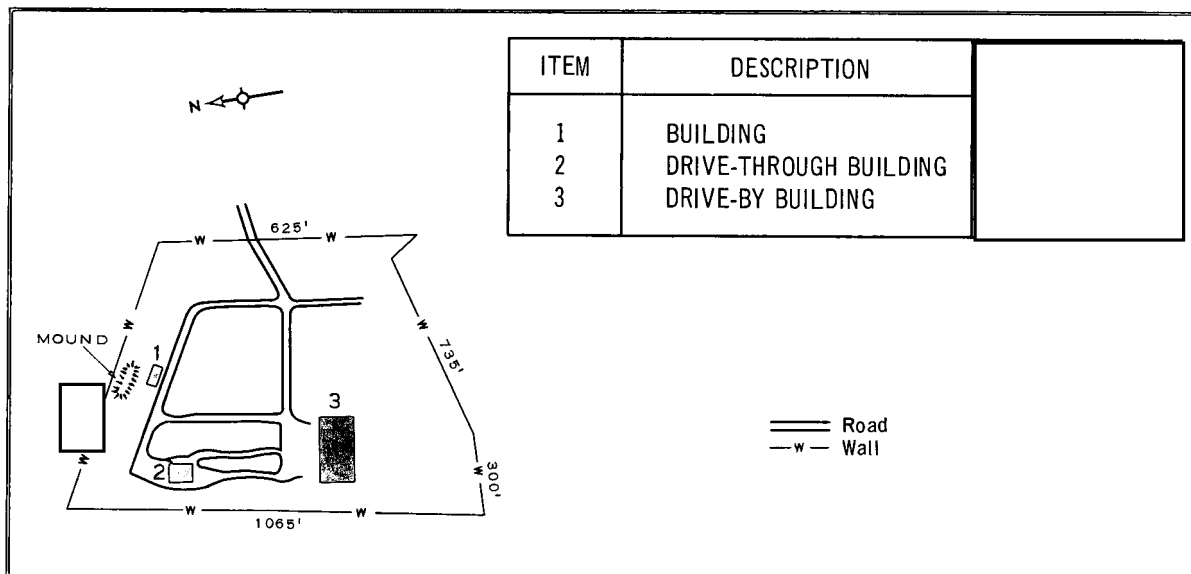


FIGURE 4. KALININGRAD SA-3 ASSEMBLY FACILITY

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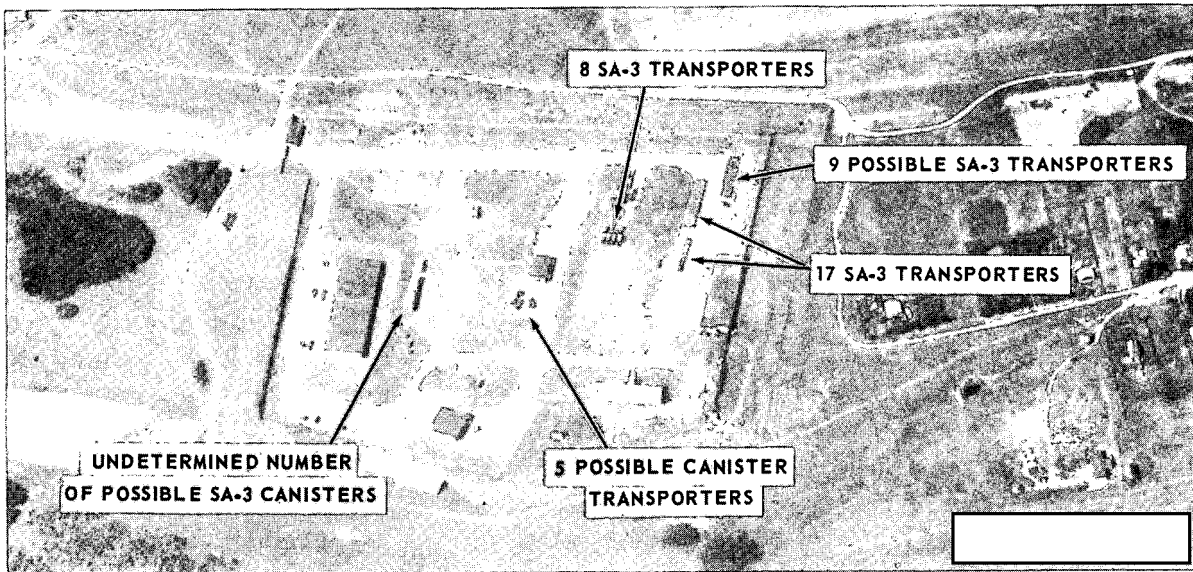
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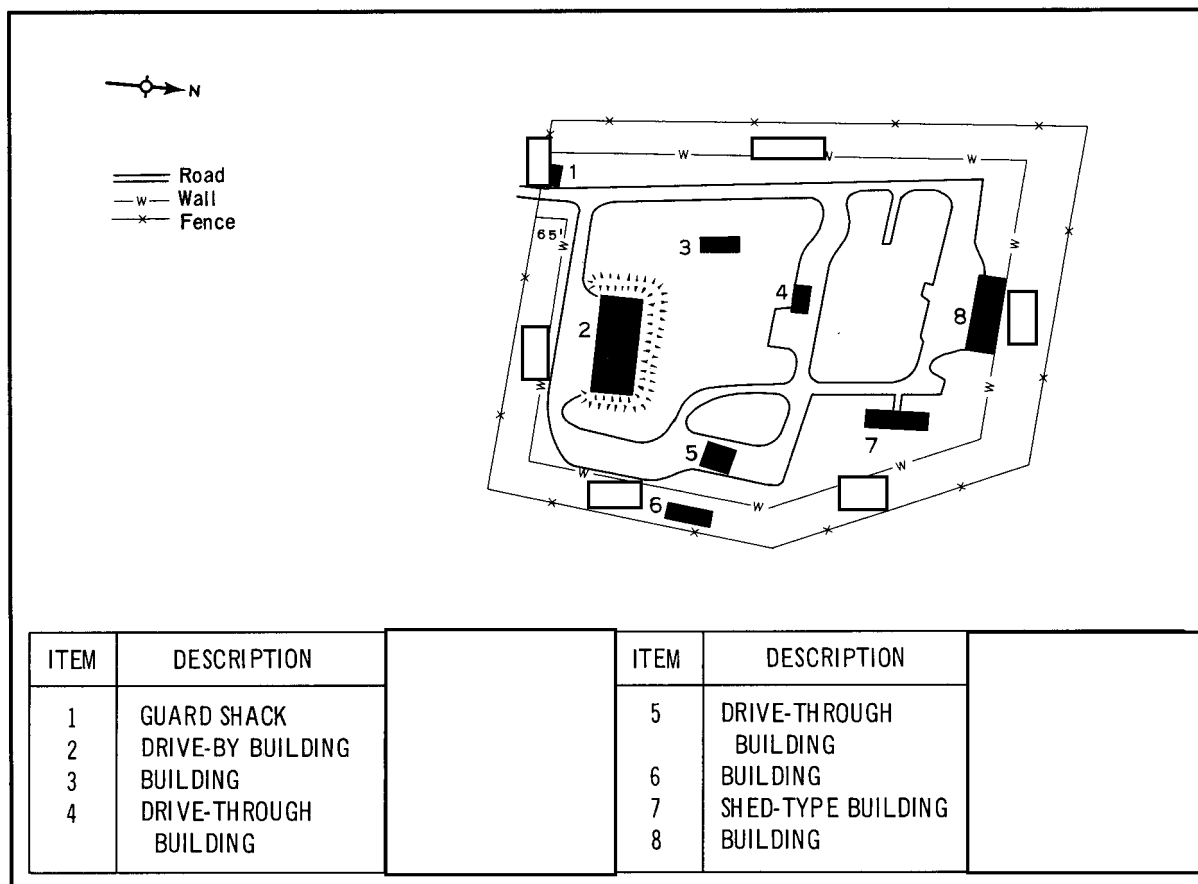


FIGURE 5. MOSCOW SA-3 ASSEMBLY FACILITY I

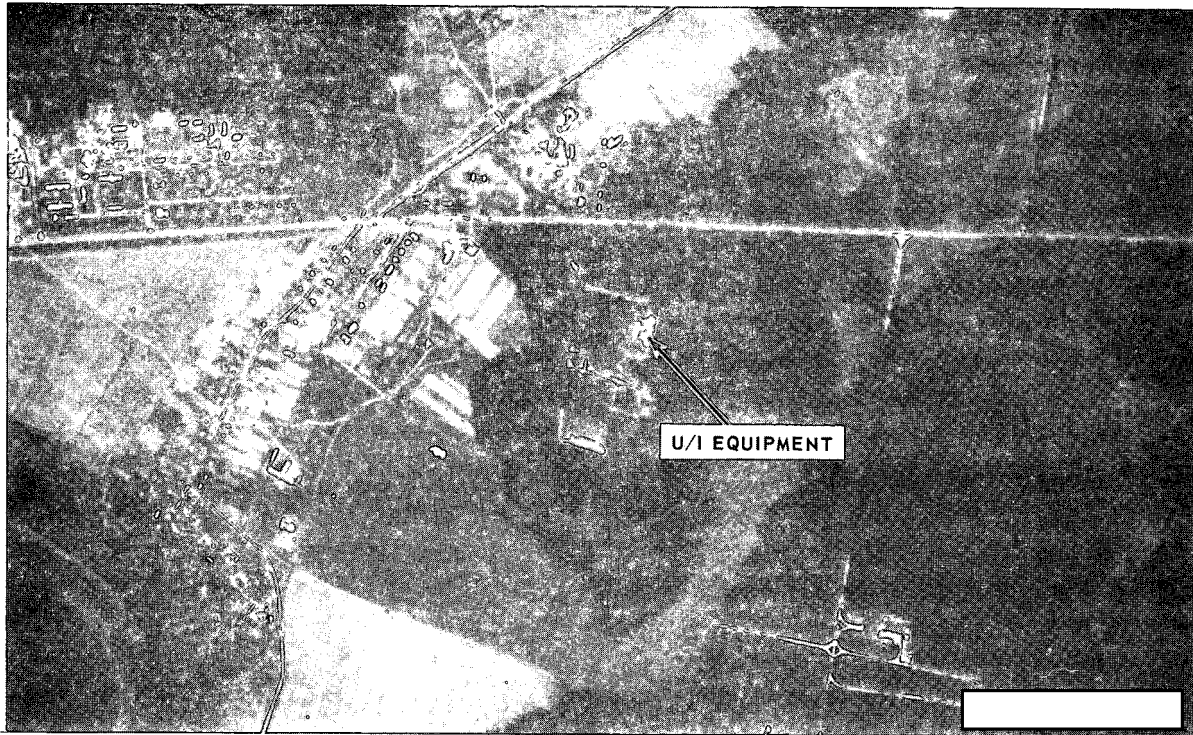
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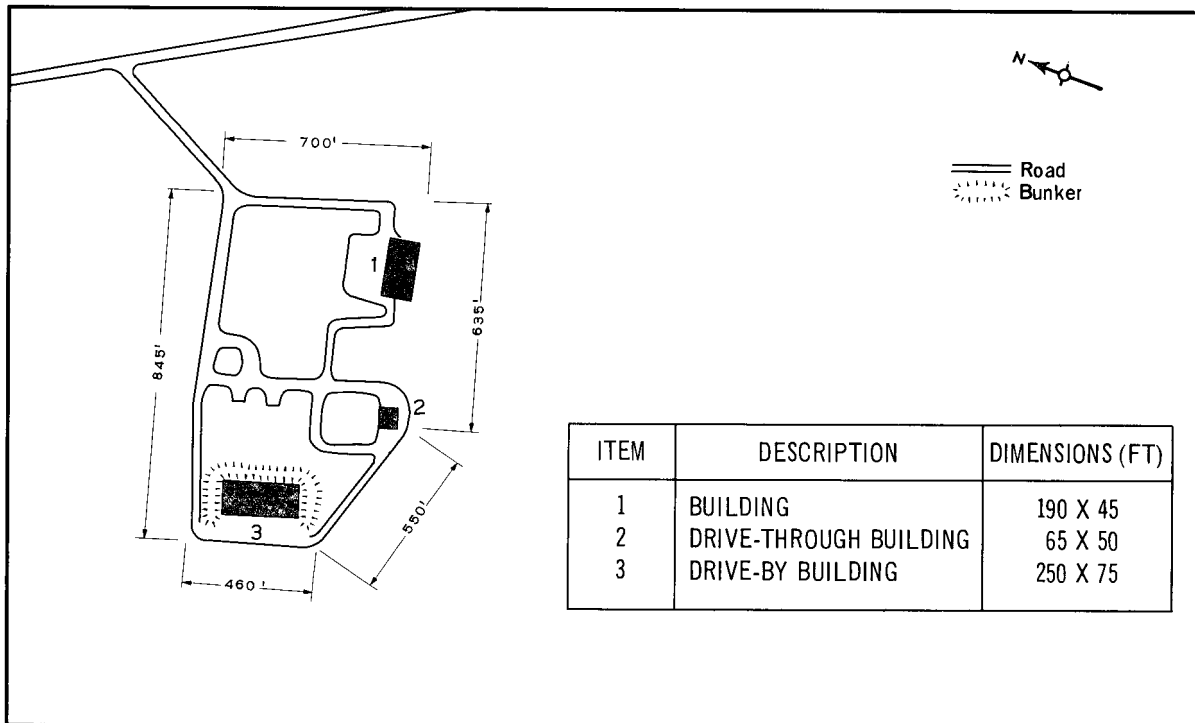


FIGURE 6. MOSCOW SA-3 ASSEMBLY FACILITY II

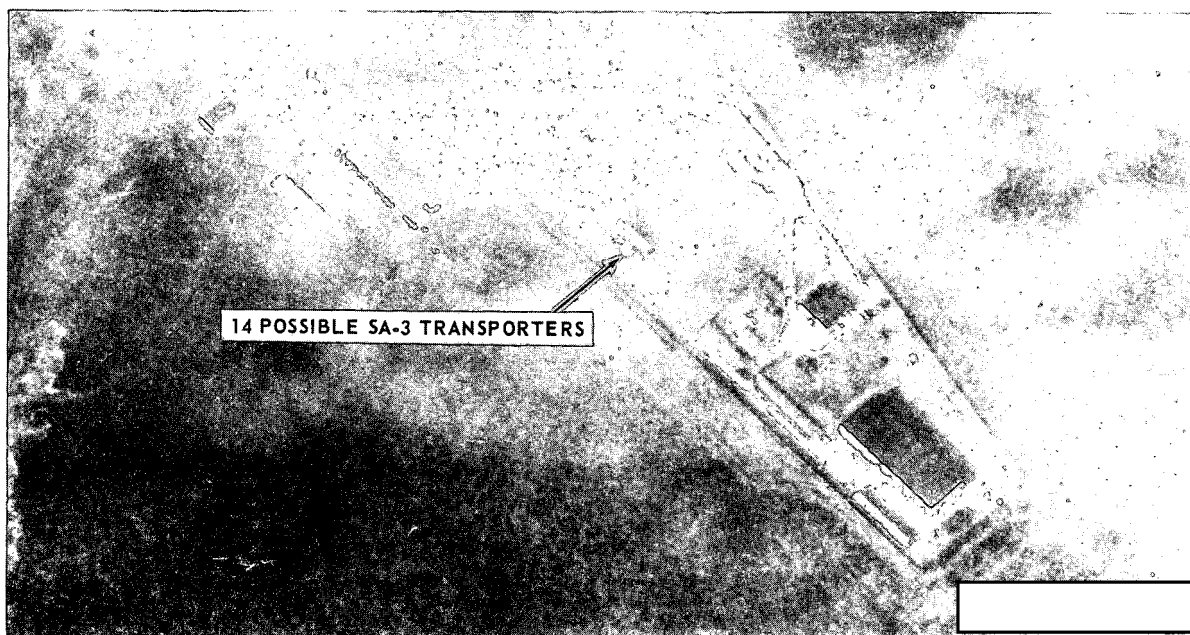
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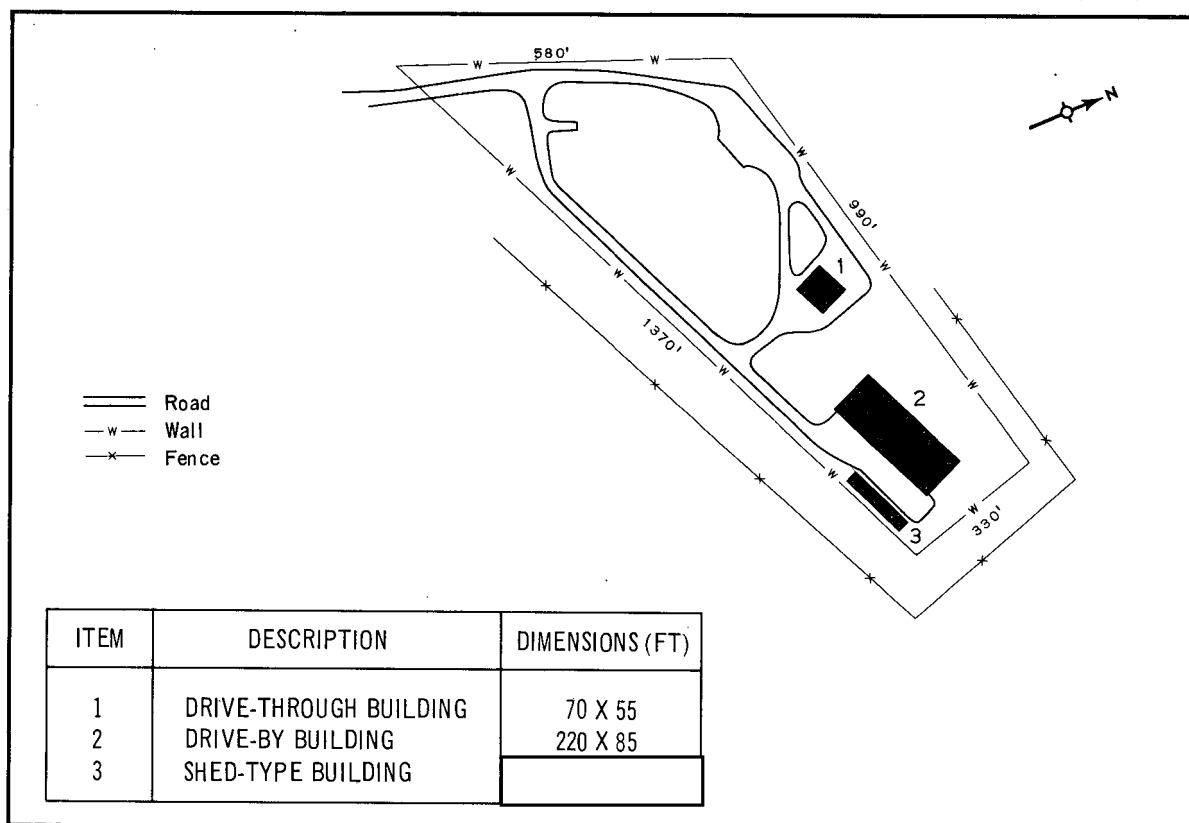
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FIGURE 7. MURMANSK SA-3 ASSEMBLY FACILITY

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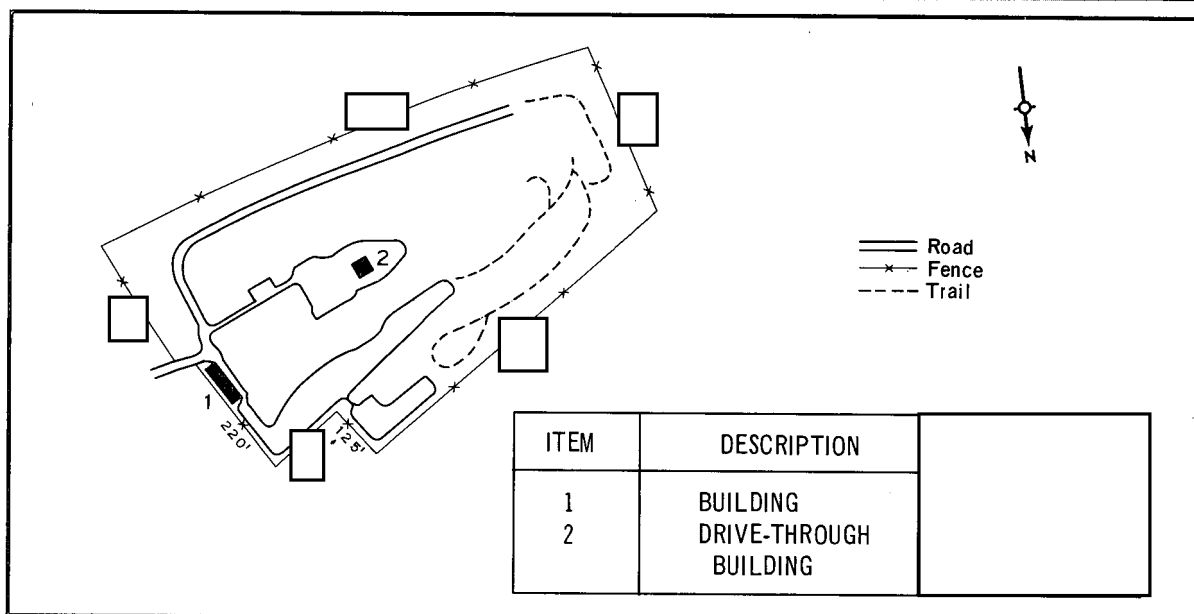
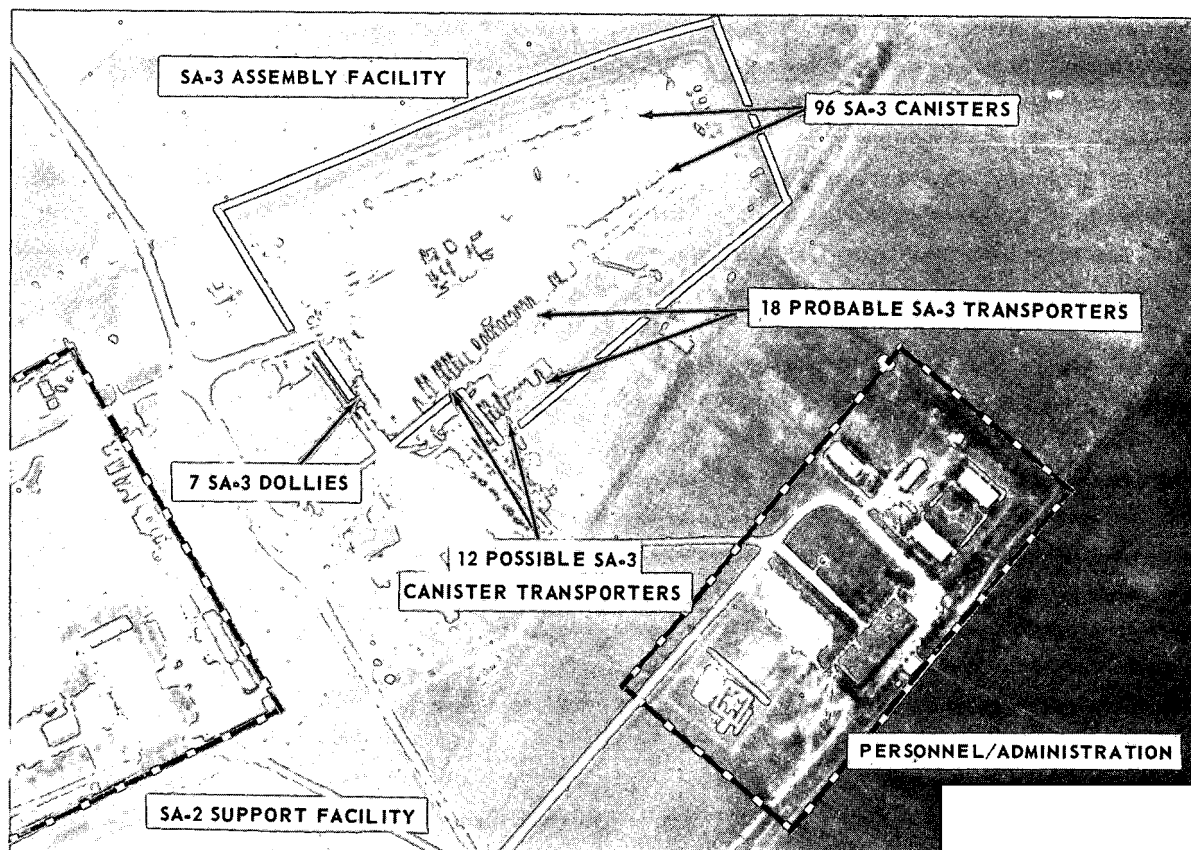


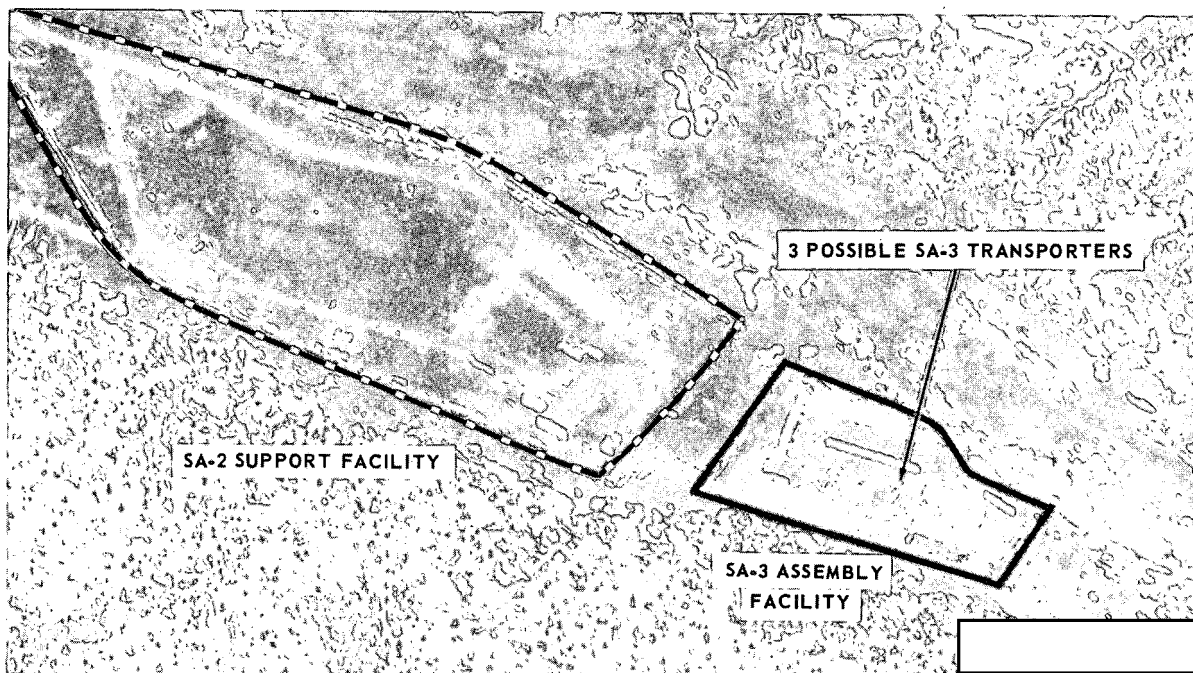
FIGURE 8. ODESSA SA-3 ASSEMBLY FACILITY

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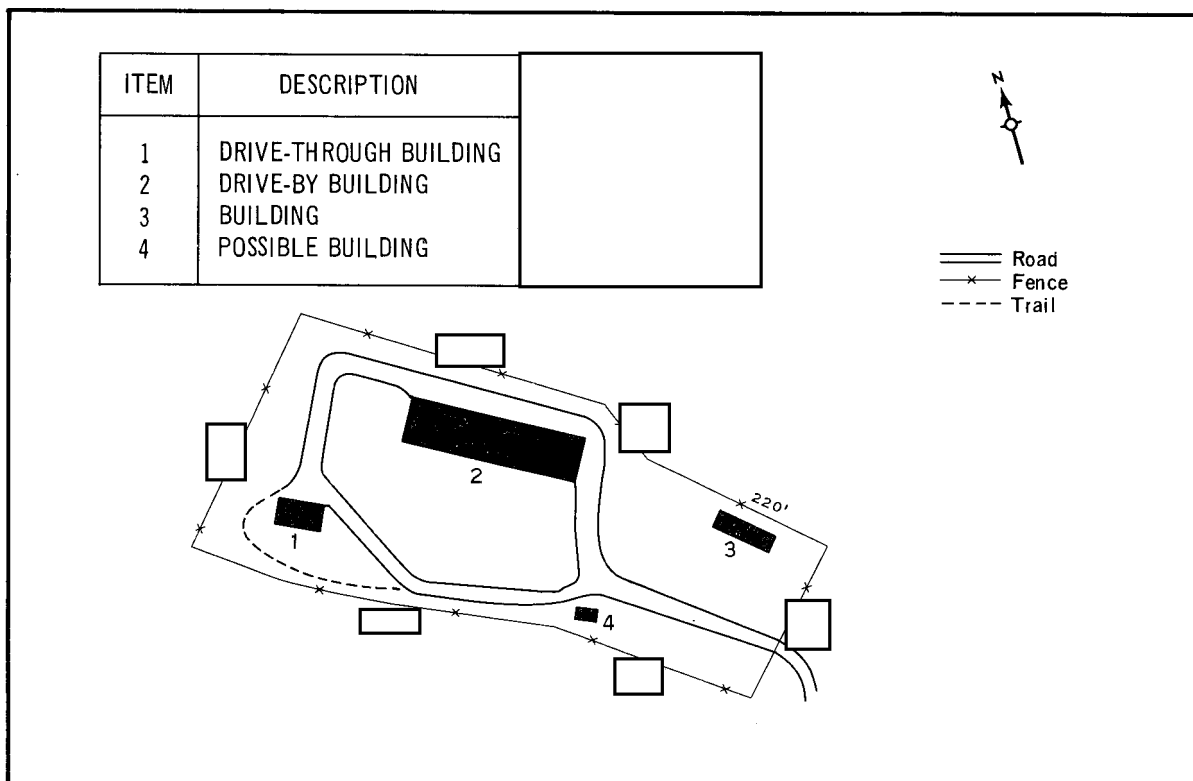
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FIGURE 9. OLENEGORSK SA-3 ASSEMBLY FACILITY

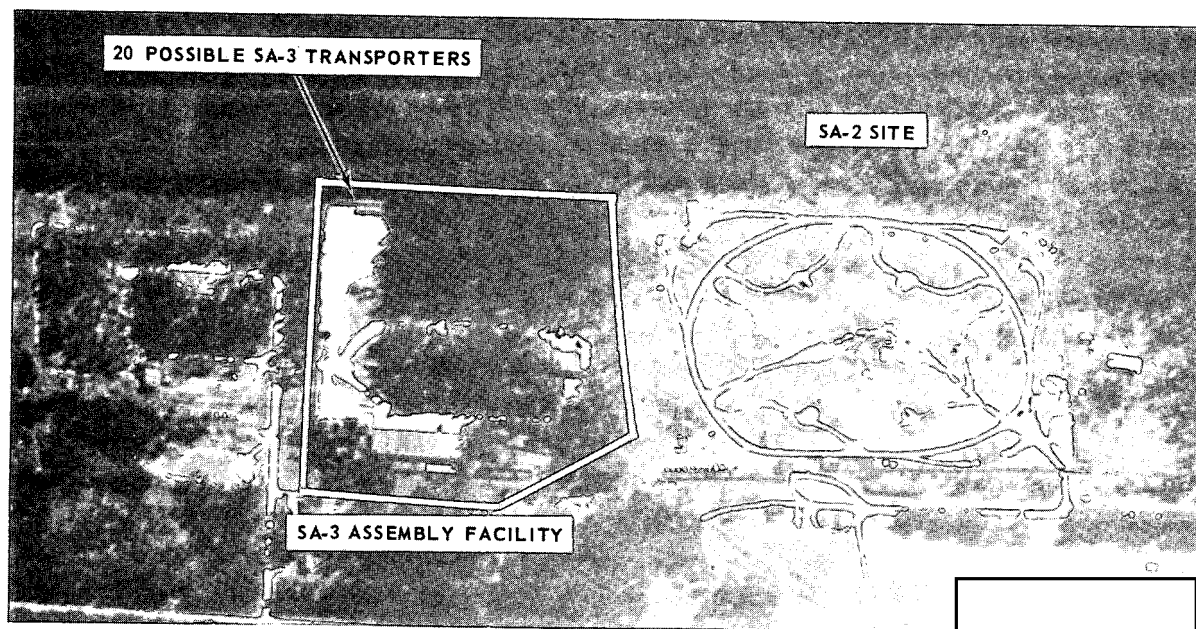
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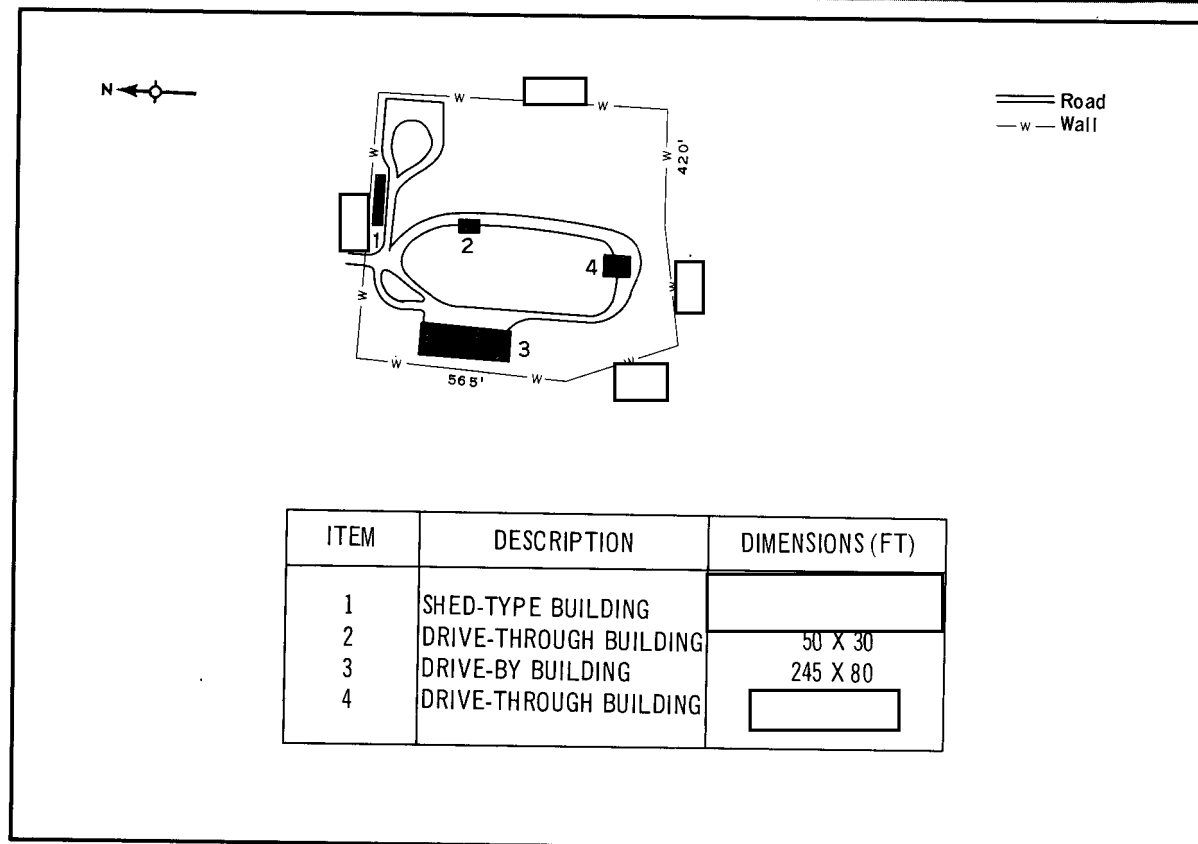
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FIGURE 10. PALANGA SA-3 ASSEMBLY FACILITY

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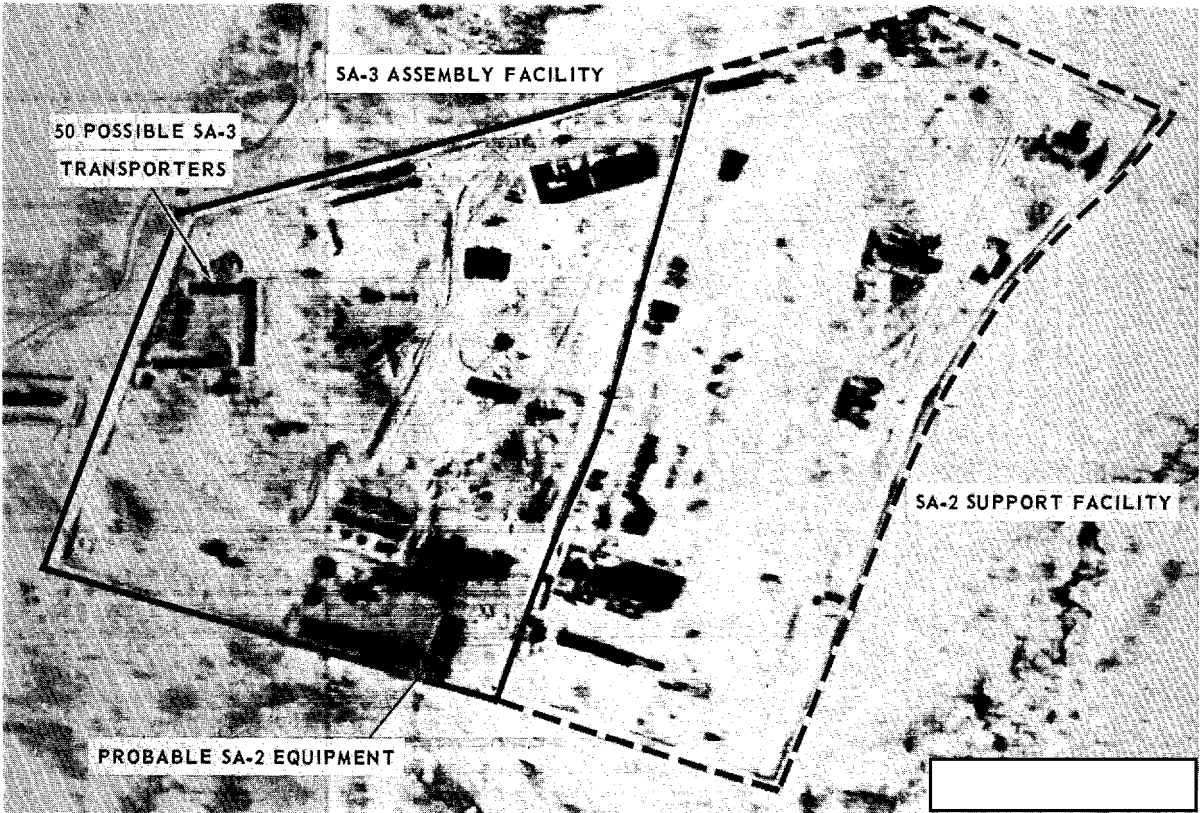
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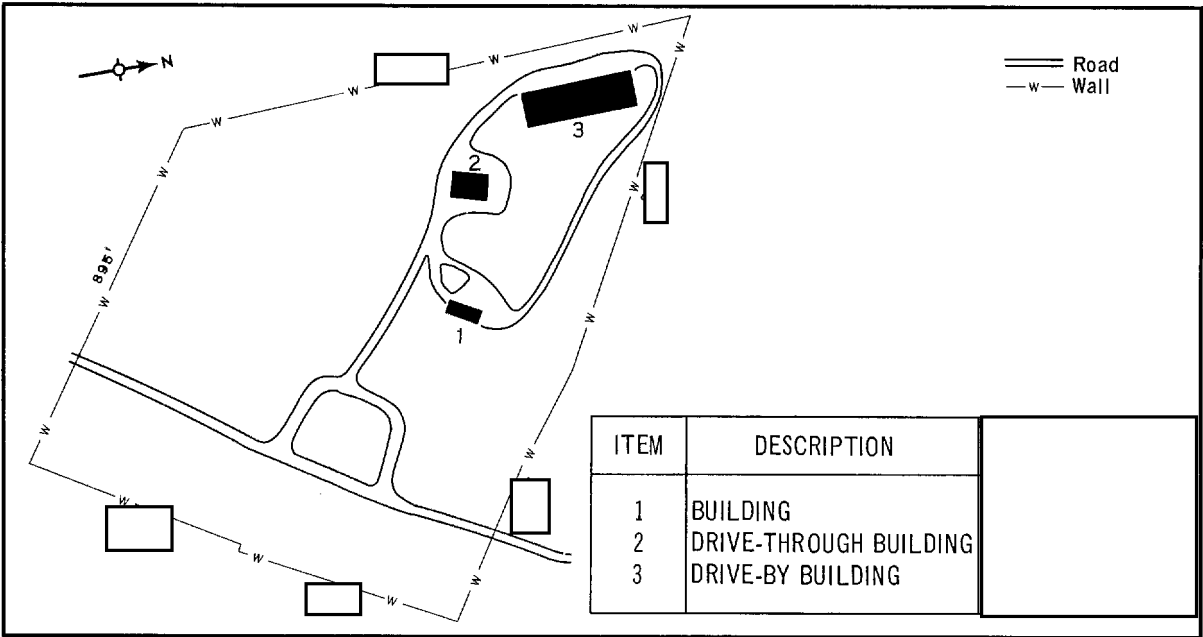
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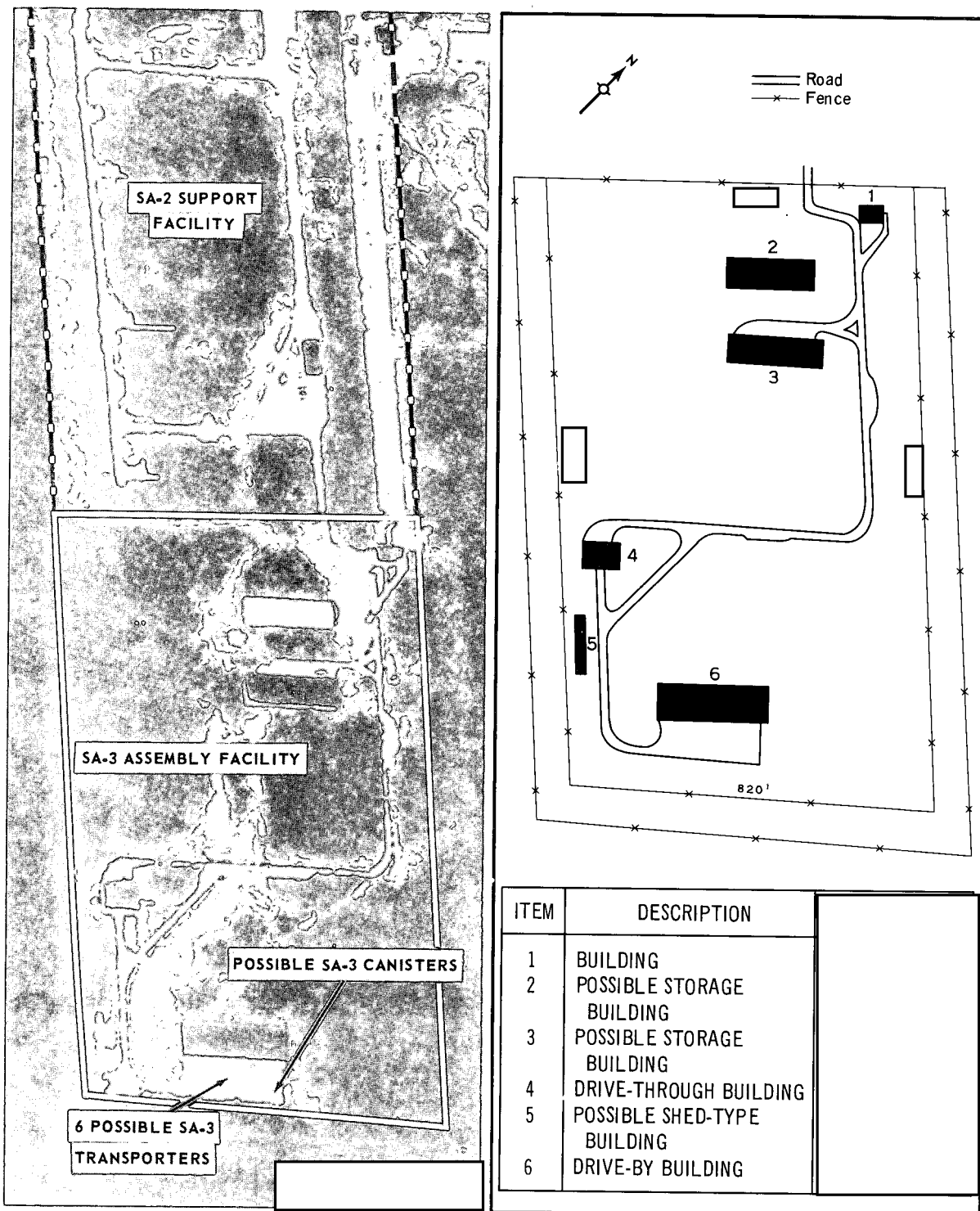
FIGURE 11. PETROPAVLOVSK SA-3 ASSEMBLY FACILITY

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FIGURE 12. PLESETSK SA-3 ASSEMBLY FACILITY

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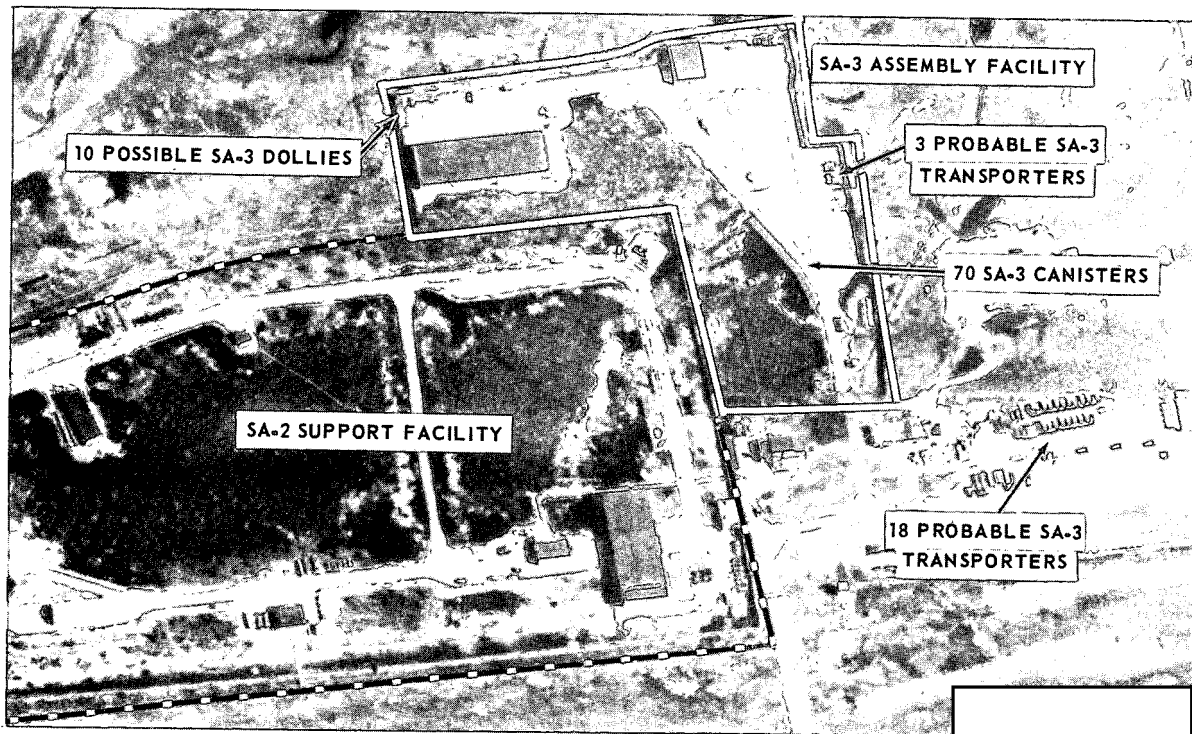
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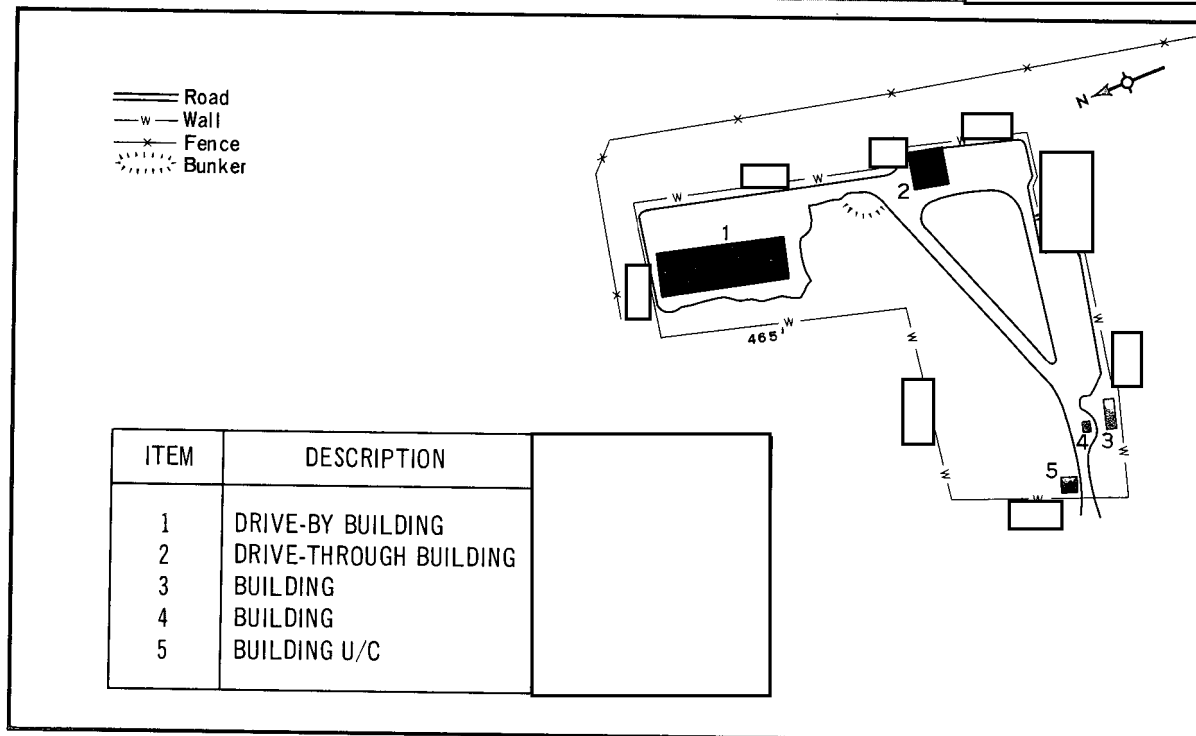
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FIGURE 14. SEVERODVINSK SA-3 ASSEMBLY FACILITY

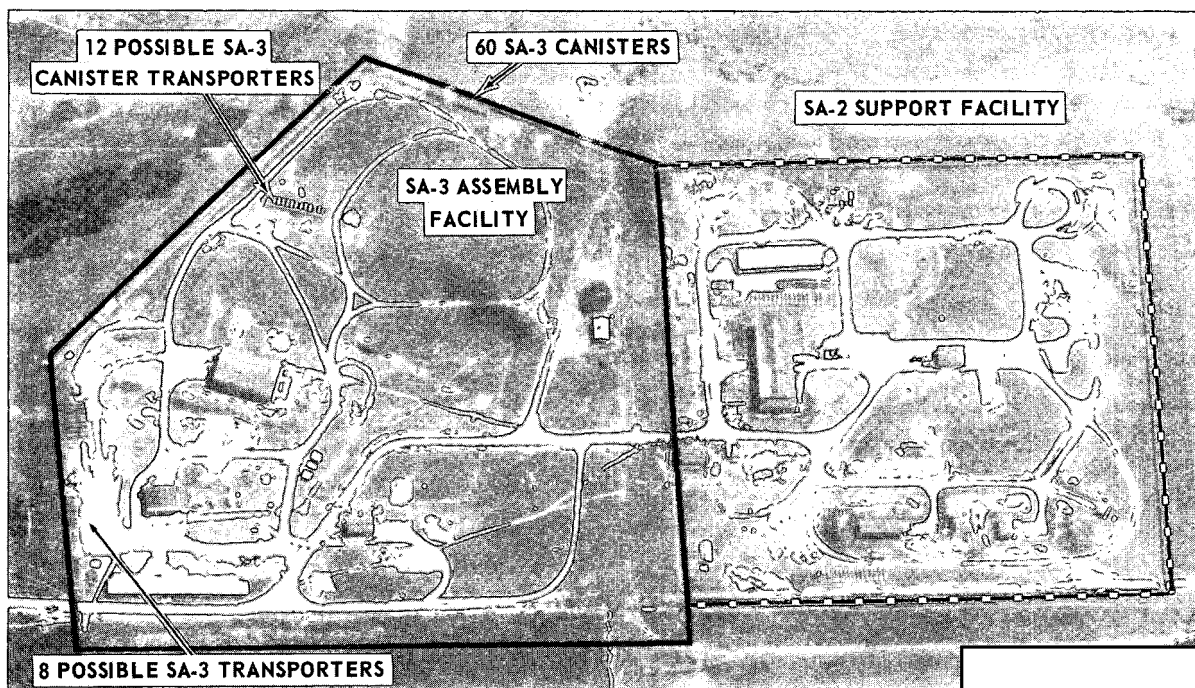
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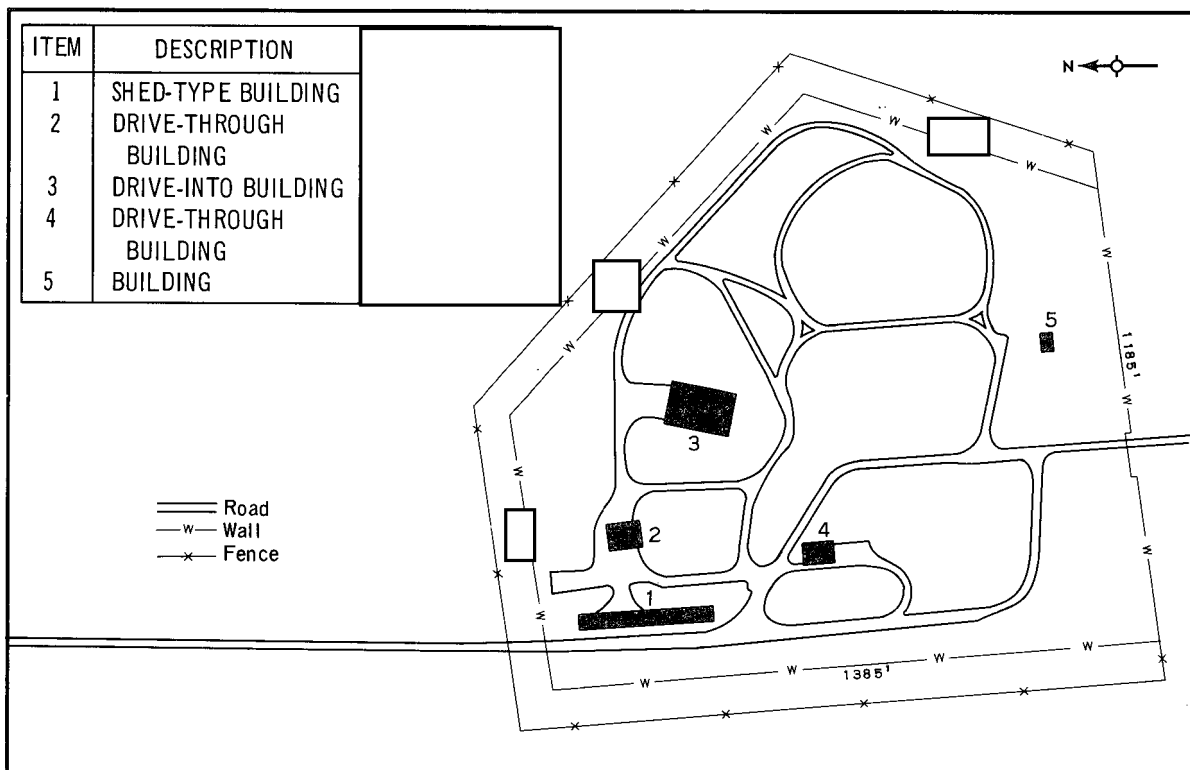
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FIGURE 15. USSURIYSK SA-3 ASSEMBLY FACILITY

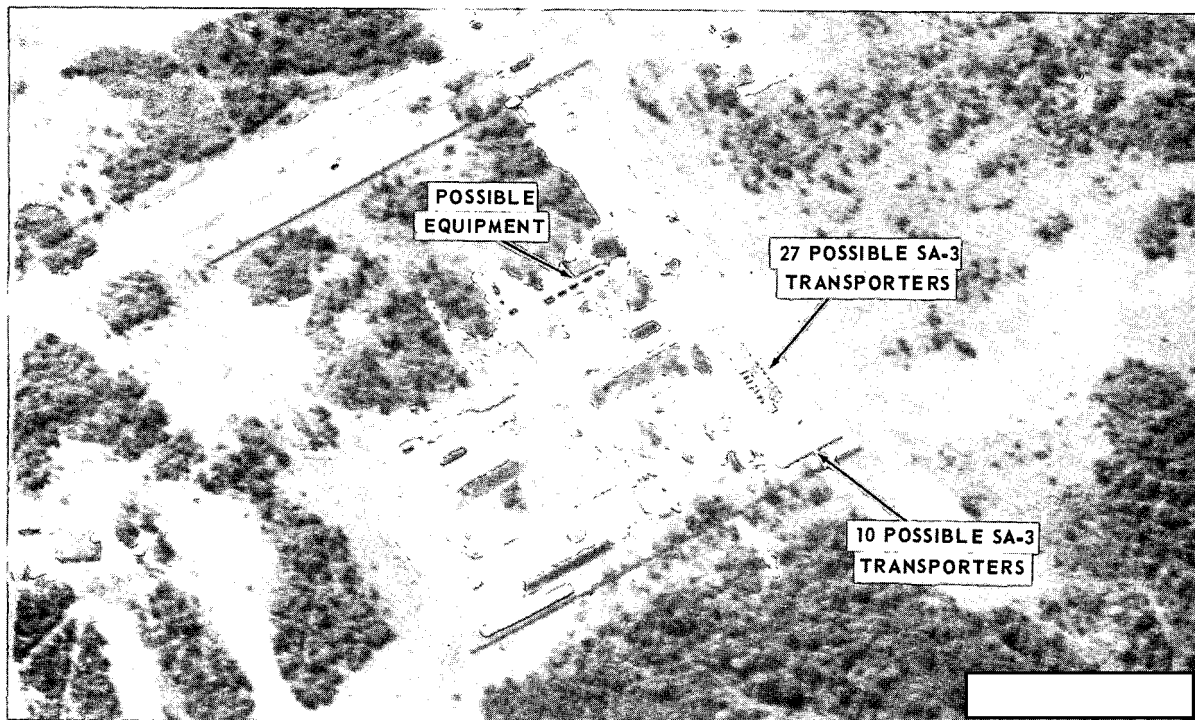
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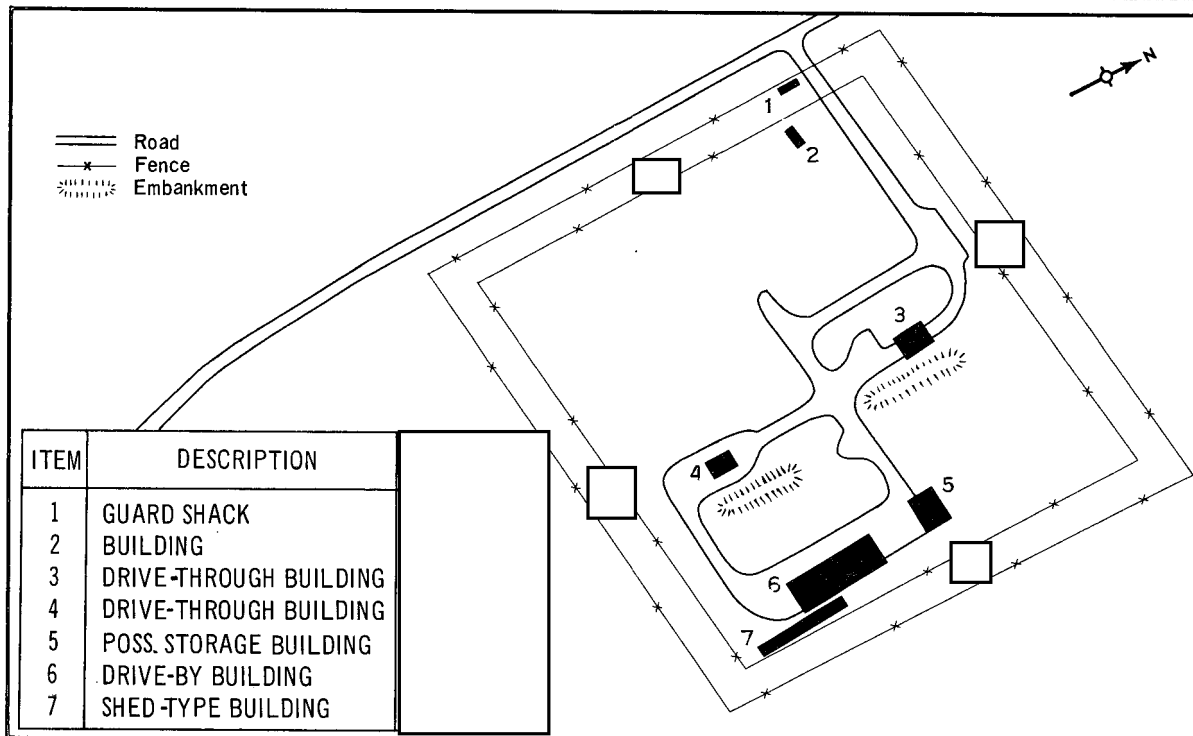
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FIGURE 16. VLADIVOSTOK SA-3 ASSEMBLY FACILITY

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